

CURRICULUM VITAE

CAROLINE DONG

CONTACT

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Evolutionary Biology
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EDUCATION

PHD BIOLOGY

2016 – 2020

The University of Melbourne, Melbourne, Victoria AUS

Dissertation: Speciation and secondary contact in a colourful agamid

Advisors: Dr. Devi Stuart-Fox, Dr. Adnan Moussalli, Dr. Claire A. McLean

MSC BIOLOGY

2012 – 2015

The University of Hawaii Manoa, Honolulu, Hawaii USA

Thesis: Origins of softshell turtles in Hawaii with implications for conservation

Advisor: Dr. Robert C. Thomson

BSC BIOLOGY

2008 – 2012

Saint Louis University, St. Louis, Missouri USA

Senior thesis: Buoyancy control in cold-submerged painted turtles (*Chrysemys picta*)

Advisor: Dr. Daniel E. Warren

PEER-REVIEWED PUBLICATIONS

Dong CM, Johnston GR, Stuart-Fox D, Moussalli A, Rankin KJ, McLean CA. Elevation of divergent color polymorphic and monomorphic lizard lineages (Squamata: Agamidae) to species level. *Ichthyology and Herpetology* (formerly *Copeia*). In press.

Stuart-Fox D, Aulsebrook A, Rankin KJ, **Dong CM**, McLean CA. Convergence and divergence in lizard colour polymorphisms. *Biological Reviews*. In press. doi: 10.1111/brv.12656

McLean CA, Bartle RA, **Dong CM**, Rankin KJ, Stuart-Fox D. 2020. Divergent male and female mate preferences do not explain incipient speciation between lizard lineages. *Current Zoology*. 0(0):1–8. doi: 10.1093/cz/zoaa010

Dong CM, McLean CA, Moussalli A, Stuart-Fox DM. 2019. Conserved visual sensitivities across divergent lizard lineages that differ in an ultraviolet sexual signal. *Ecology and Evolution*. 9(20):11824–11832. doi: 10.1002/ece3.5686

Dong CM, Engstrom TE, Thomson RC. 2016. Origins of softshell turtles in Hawaii with implications for conservation. *Conservation Genetics*. 17(1):207–220. doi: 10.1007/s10592-015-0772-7

Cantrell EA, **Dong CM**, Hill CA, Warren DE. 2014. Buoyancy control in cold-submerged painted turtles: implications for overwintering physiology and behavior. *Herpetologica*. 70(4): 388–394. doi: 10.1655/herpetologica-d-14-00016

SUBMITTED MANUSCRIPTS

Dong CM, McLean CA, Elliott A, Moussalli A, Stuart-Fox D. When polymorphism and monomorphism meet: discordant genomic and phenotypic clines across a lizard contact zone. *bioRxiv*: <https://www.biorxiv.org/content/10.1101/840678v1>

Dong CM, Rankin KJ, McLean CA, Stuart-Fox D. Maternal reproductive strategy and parental effects on F1 hybrid fitness may influence contact zone dynamics.

GRANTS & AWARDS

(UM = University of Melbourne, UHM = University of Hawaii Manoa)

2020	\$5,000 AUD	UM Faculty of Science Postgraduate Writing-Up Award
2018	\$1,700 AUD	Holsworth Wildlife Research Endowment
2018	\$1,000 AUD	UM Animal Welfare Excellence Award
2018	\$1,500 AUD	UM Science Abroad Travelling Scholarship
2018	\$1,500 AUD	UM BioSciences Travel Grant
2017	\$6,000 AUD	Holsworth Wildlife Research Endowment
2017	\$886 AUD	UM Drummond Travel Award
2017	\$800 USD	Am. Society of Ichthyologists & Herpetologists, Travel Award
2017	\$500 USD	Society for the Study of Amphibians & Reptiles, Travel Award
2016 – 2019	\$30,000 AUD per annum	Melbourne International Research Fellowship
2015	\$324 USD	UHM Graduate Student Organization Travel Award
2014	\$5,035 USD	UHM Hampton and Meredith Carson Fellowship
2013 – 2015	\$22,257 USD per annum	UHM Teaching Assistantship
2012	\$22,257 USD per annum	UHM Research Assistantship

RESEARCH POSITIONS

POST-DOCTORAL FELLOW

OCTOBER 2020 – PRESENT

Tulane University, Louisiana USA

- Investigating local adaptation and speciation in the *Mimulus guttatus* species complex.
- Advisor: Dr. Kathleen G. Ferris

RESEARCH ASSISTANT

MARCH – OCTOBER 2020

The University of Melbourne, Victoria AUS

- Collecting genetic, geographic, and morphological data on 176 amphibian species from published literature in order to conduct a meta-analysis to examine patterns of population connectivity.
- Advisors: Dr. Iliana Medina, Dr. Devi Stuart-Fox

DESERT TORTOISE SURVEY MONITOR

AUGUST – NOVEMBER 2015

The Great Basin Institute, Nevada, USA

- Performed line-distance sampling and mark-recapture protocol to survey for desert tortoises (*Gopherus agassizii*) in the Mojave Desert.

FIELD RESEARCH ASSISTANT

JUNE 2011

Southwestern Research Station, Arizona, USA

- Assisted in the collection of soil and vegetation data to assess impacts of cattle grazing.
- Advisor: Dr. Ginger R.H. Allington

W.S. BARNICKLE INTERNSHIP IN NATURAL SCIENCES

2010 – 2011

Saint Louis University, Missouri, USA

- Collected morphological data from freshwater fish specimens as part of the NSF Cypriniformes Tree of Life project.
- Advisor: Dr. Richard L. Mayden

TEACHING EXPERIENCE

GRADUATE TEACHING ASSISTANT, The University of Melbourne

2016 – 2020

- ZOOL 30007: Experimental Animal Behaviour (2 semesters)
- ZOOL 20006: Comparative Animal Physiology (3 semesters)
- ZOOL 20004: Australian Wildlife Biology (1 semester)
- EVSC 20004: Introduction to Marine Environments (2 semesters)

- ECOL 20003: Ecology (3 semesters)
- BIOL 10005: Genetics and the Evolution of Life (4 semesters)
- BIOL 10004: Biology of Cells and Organisms (2 semesters)
- BIOL 10003: Genes and Environment (4 semesters)
- BIOL 10002: Biomolecules and Cells (2 semesters)

TEACHING ASSOCIATE, Gene Technology Access Centre

2016 – 2020

- Guided high school students through laboratory exercises to teach theory and applications of cell and molecular biology, including extended off-site outreach to rural elementary schools.

GRADUATE TEACHING ASSISTANT, The University of Hawaii Manoa

2012 – 2015

- ZOOL 480: Evolution (1 semester)
- ZOOL 430: Animal Physiology (1 semester)
- BIOL 275: Cell and Molecular Biology (3 semesters)
- BIOL 265: Ecology and Evolution (1 semester)

ORAL PRESENTATIONS & POSTERS

Dong CM, McLean CA, Elliott A, Moussalli A, Stuart-Fox D. November 2019.

When polymorphism and monomorphism meet: secondary contact between divergent lizard lineages.

Australasian Evolution Society. Oral talk. Sydney, New South Wales, AUS.

*Honorable mention 15 min talk

Dong CM, McLean CA, Moussalli A, Stuart-Fox DM. December 2018.

Correspondence of genomic and phenotypic lines across a contact zone of the tawny dragon, *Ctenophorus decresii*.

Joint Meeting of ASH and SRARNZ. Oral talk. Kindilan, Queensland AUS.

Dong CM, McLean CA, Moussalli A, Stuart-Fox DM. July 2018.

Genomic and phenotypic patterns across a contact zone of colorful agamids.

Joint Meeting of Ichthyologists and Herpetologists. Oral talk. Rochester, New York USA.

Dong CM, McLean CA, Moussalli A, Stuart-Fox DM. July 2017.

Asymmetrical introgression of throat coloration across a contact zone of Australian agamids.

Joint Meeting of Ichthyologists and Herpetologists. Oral talk. Austin, Texas USA.

*SSAR Henri Seibert Honorable Mention in Systematics/Evolution category

Dong CM, McLean CA, Moussalli A, Stuart-Fox DM. June 2017.

Colour vision and opsin expression variation in an agamid, *Ctenophorus decresii*.
Australian Society of Herpetologists. Oral talk. Fairbridge, Western Australia AUS.

Dong CM, Engstrom TE, Thomson RC. July 2015.

Origins of softshell turtles in Hawaii with implications for conservation.
Society for the Study of Amphibians and Reptiles. Oral talk. Lawrence, Kansas USA.

Dong CM, Engstrom TE, Thomson RC. April 2015.

Origins of softshell turtles in Hawaii with implications for conservation.
Albert Tester Memorial Symposium. Oral talk. Honolulu, Hawaii USA.

Dong CM, Warren DE. April 2012.

The effects of depth and temperature acclimatization on buoyancy control in the painted turtle (*Chrysemys picta*).
Saint Louis University Undergraduate Research Symposium. Poster. St. Louis, Missouri USA.

COMMUNITY ENGAGEMENT

- Aug. 2019 **National Science Week, Melbourne Museum**
Designed and led an interactive table talk on the production, visual perception, and function of coloration for children and families.
- July 2019 **Nocturnal event, Melbourne Museum**
Designed and led an interactive table talk on the production, visual perception, and function of animal coloration for adults (18+)
- Nov. 2018 **Bioscan surveys, Museums Victoria and Parks Victoria**
Assisted in the collection of specimen vouchers during herpetology biodiversity field surveys in Anglesea, Victoria.
- June 2018 **Scope TV program, "Reptiles and Amphibians" episode**
Appeared on a children's science TV show to discuss coloration as a driver of speciation in lizards (Season 4, Episode 52).
- Aug. 2016 **Marian College, Science Projects**
Assisted students (grade 8) with a science project on river water quality and turbidity.
- Mar. 2015 **Science Alive! festival, Bernice P. Bishop Museum**
Organized a table with live animals to engage young children about the negative impacts of non-native species.
- April 2015 **Tide Walks event, Mililani-Mauka Elementary School**
Participated in the annual event which introduced students to the diversity of unique marine life in local tide pools.
- June 2013 **Gene-ius Day program, University of Hawaii Manoa**
Assisted students (grades 4 – 6) with DNA extractions on strawberries.

SERVICE

- 2018 – present **Journal reviewer:** *Ichthyology and Herpetology* (formerly *Copeia*), *Biological Journal of the Linnean Society*.
- July 2018 **Mentor, Society for the Study of Amphibians & Reptiles mentorship program**
Mentored an early stage graduate student and new attendee of the Joint Meeting of Ichthyologists & Herpetologists.
- 2014 **Departmental seminar committee member, University of Hawaii**
Assisted a faculty member in organising invited speakers for weekly Biology Department seminars.
- 2013 – 2014 **Graduate student representative, University of Hawaii**
Attended weekly faculty meetings, coordinated the transition of new graduate students, and organized social events.
- 2011-2012 **Secretary, *Beta Beta Beta* National Biological Honour Society, Iota Chi chapter**
Distributed information, updated website, assisted in organising monthly meetings.